



COMMONWEALTH of VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY  
A Nationally Accredited Laboratory

737 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010659  
DATE CERTIFICATION METHOD PERFORMED: January 29, 2015  
DATE RECERTIFICATION DUE: July 28, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L      0.150 ± 0.008 g/210 L  
0.080 ± 0.004 g/210 L      0.250 ± 0.008 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

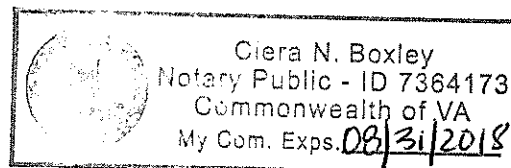
Michelle M. Billeter  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 30<sup>th</sup> day of  
January, 2015 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/29/2014 To 1/30/2015

DBH  
MMB

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Instrument Serial Number:	010659	As of 30-Jan-15
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Maintenance Date	Certification Date	Technician Initials	Remarks
29-Jan-15	29-Jan-15	DBH (21250)	REPLACED UPS BACK-UP BATTERY. CERTIFIED. REPLACED DRY GAS STANDARD.
13-Aug-14	13-Aug-14	MMB (26417)	CERTIFIED.
28-Apr-14	28-Apr-14	DBH (21250)	REPLACED DRY GAS SOLENOID VALVE. FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.

LBH  
mmB

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010659 Worksheet Start Date 1/29/2015  
Location Yorktown NWS  
Address Building 702 Belzer Dr Yorktown VA 23691  
DFS Technician Donald Hall License No. 21250  
☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 765 Reference Barometer (mm HG) 767  
Reference Barometer(RB)Serial # 009109 RB Calibration Due 7/28/2015

## Measurement Assurance Check

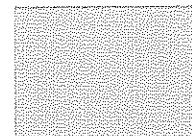
Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.301
0.300	0.302	0.292	0.311	Sample 2	0.301
Precision		sample min	sample max	Sample 3	0.300
0.001		0.300	0.301		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.098
0.100	0.101	0.097	0.104	Sample 2	0.098
Precision		sample min	sample max	Sample 3	0.098
0		0.098	0.098		

Dry gas standard Lot No. (with tank no.) AG332301-01

- ☒ Replaced dry gas standard (+O-ring)  
☐ Installed at Location  
☐ Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:



## Notes:

Replaced UPS back-up battery.

Instrument Serial Number

010659

Certification Date

1/29/2015

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.249
0.250	0.252	0.244	0.259	Sample 2	0.249
Precision		sample min	sample max	Sample 3	0.248
0.001		0.248	0.249		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.149
0.150	0.151	0.146	0.155	Sample 2	0.150
Precision		sample min	sample max	Sample 3	0.149
0.001		0.149	0.150		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.079
0.080	0.080	0.077	0.083	Sample 2	0.079
Precision		sample min	sample max	Sample 3	0.079
0		0.079	0.079		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Donald B Hall

Date

1/30/15

Issuing Analyst

Michelle Bullock

Date

1/30/15

JPD




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2016</b>	DATE TEST CONDUCTED <b>01/29/2015</b>
TEST EQUIPMENT NUMBER <b>010659</b>		

RESULTS: TIME SAMPLE TAKEN **10:58 EST**

SAMPLE'S ALCOHOL CONTENT **0.00** GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND

THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 29 Jan 2015 at 11:23

TLN  
DOH  
mmB

## Test Results

Instrument Serial Number 010659

Test # 000311

Subject Test

Test Location 1 Department of

Test Date 29 Jan 2015

Test Location 2 Forensic Science

Test Time 10:52

Remote/Local Local

Test Location 3

System Check Passed

Operator's Last Name HALL

Agency DFS Central Lab

Card Serial Number 121250

Subject's Last Name INSTRUMENT

Subject's Middle Initial

Driver's License Number

Driver's License State

Operator's First Name DONALD

Effective Date 10/01/2014

Subject's Date of Birth 00/00/0000

License Number 21250

Operator's Middle Initial B

Expiration Date 10/01/2016

Subject's First Name TEST

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 29 Jan 2015

End Time 10:59

Result Time 10:58

Result Date 29 Jan 2015

Result 0.00

Data Type DIAG

Data Type BLK

Data Type CHK

Data Type BLK

Data Type SUBJ

Data Type BLK

Data Type SUBJ

Data Type BLK

Standard Type Dry Gas Std

Standard Lot Number AG316301-27

Tank Pressure 149

Blow Sample Number 1

Blow Duration 3.58 sec

Blow Sample Number 2

Blow Duration 3.99 sec

Tamper Evident Stamp 2d281a27

Test Status Success

Sample Value Pass

Sample Value 0.000

Sample Value 0.100

Sample Value 0.000

Sample Value 0.000

Sample Value 0.000

Sample Value 0.000

Sample Value 0.000

Sample Value 0.000

Sample Time 10:52

Sample Time 10:53

Sample Time 10:54

Sample Time 10:55

Sample Time 10:56

Sample Time 10:57

Sample Time 10:58

Sample Time 10:59

Standard Value 0.101

Standard Expiration Date 06/12/2015

Barometric Pressure 765 mmHg

Blow Volume 1930 cc

End-of-Blow Time 10:56

Blow Volume 1972 cc

End-of-Blow Time 10:58

Test Status Code 0

**Intox EC/IR-II: Accuracy Check**

DBH  
mmB

*Department of Forensic Science*

Serial Number: 010659      Test Number: 312

Test Date: 01/29/2015      Test Time: 11:01 EST

Dry Gas Target: 0.101

Lot Number: AG316301-27      Exp Date: 06/12/2015

Tank Pressure: 149 psi      Barometric Pressure: 765 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	11:01
CHK	0.100	11:02
BLK	0.000	11:04
CHK	0.100	11:04
BLK	0.000	11:06
CHK	0.100	11:07

Test Status: Success

Calibration CRC: 9C39691F

DBH  
mmB

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010659      Test Number: 313

Test Date: 01/29/2015      Test Time: 11:09 EST

Dry Gas Target: 0.302

Lot Number: AG428003-10      Exp Date: 10/07/2016

Tank Pressure: 360 psi      Barometric Pressure: 765 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:10
CHK	0.304	11:10
BLK	0.000	11:12
CHK	0.304	11:13
BLK	0.000	11:15
CHK	0.303	11:16

Test Status: *Success*

Calibration CRC: 9C39691F



DBH  
mmB

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010659      Test Number: 314

Test Date: 01/29/2015      Test Time: 11:32 EST

Technician Initials: DBH

Dry Gas Target: 0.252

Lot Number: 16114250I4-01      Exp Date: 07/05/2016

Tank Pressure: 850 psi      Barometric Pressure: 765 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:33
BLK	0.000	11:33
CHK	0.249	11:34
BLK	0.000	11:36
CHK	0.249	11:37
BLK	0.000	11:39
CHK	0.248	11:39
BLK	0.000	11:41

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH  
mmB

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010659      Test Number: 315

Test Date: 01/29/2015      Test Time: 11:43 EST

Technician Initials: DBH

Dry Gas Target: 0.151

Lot Number: 07713150I3-02      Exp Date: 05/01/2015

Tank Pressure: 247 psi      Barometric Pressure: 764 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:44
BLK	0.000	11:45
CHK	0.149	11:45
BLK	0.000	11:47
CHK	0.150	11:48
BLK	0.000	11:49
CHK	0.149	11:50
BLK	0.000	11:52

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

DBH  
mmB

*Department of Forensic Science*

Serial Number: 010659      Test Number: 316

Test Date: 01/29/2015      Test Time: 11:54 EST

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 3441308012-02      Exp Date: 01/01/2016

Tank Pressure: 134 psi      Barometric Pressure: 764 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:54
BLK	0.000	11:55
CHK	0.079	11:56
BLK	0.000	11:57
CHK	0.079	11:58
BLK	0.000	11:59
CHK	0.079	12:00
BLK	0.000	12:01

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH  
mmB

# **Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010659      Test Number: 317

Test Date: 01/29/2015      Test Time: 12:04 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-03      Exp Date: 05/01/2015

Tank Pressure: 296 psi      Barometric Pressure: 764 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:04
BLK	0.000	12:05
CHK	0.019	12:06
BLK	0.000	12:07
CHK	0.019	12:08
BLK	0.000	12:09
CHK	0.019	12:10
BLK	0.000	12:11

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

**Intox EC/IR-II: Accuracy Check**

DBH  
mmB

*Department of Forensic Science*

Serial Number: 010659      Test Number: 318

Test Date: 01/29/2015      Test Time: 12:14 EST

Dry Gas Target: 0.302

Lot Number: AG428003-10      Exp Date: 10/07/2016

Tank Pressure: 355 psi      Barometric Pressure: 764 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	12:15
CHK	0.301	12:15
BLK	0.000	12:17
CHK	0.301	12:18
BLK	0.000	12:20
CHK	0.300	12:21

Test Status: Success

Calibration CRC: 9C39691F

**Intox EC/IR-II: Accuracy Check**

DBH

mmB

*Department of Forensic Science*

Serial Number: 010659      Test Number: 319

Test Date: 01/29/2015      Test Time: 12:23 EST

Dry Gas Target: 0.101

Lot Number: AG332301-01      Exp Date: 11/19/2015

Tank Pressure: 772 psi      Barometric Pressure: 764 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:24
CHK	0.098	12:25
BLK	0.000	12:26
CHK	0.098	12:27
BLK	0.000	12:29
CHK	0.098	12:29

Test Status: *Success*

Calibration CRC: 9C39691F

DBH  
mmB




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2016</b>	DATE TEST CONDUCTED <b>01/29/2015</b>
TEST EQUIPMENT NUMBER <b>010659</b>		

RESULTS: TIME SAMPLE TAKEN **12:39 EST**

SAMPLE'S ALCOHOL CONTENT **0.00** GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 29 Jan 2015 at 12:45

TW  
DBH  
mmB

## Test Results

Instrument Serial Number 010659

Test # 000320 Subject Test

Test Location 1 Department of  
Test Date 29 Jan 2015

Test Location 2 Forensic Science  
Test Time 12:32  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B  
License Number 21250

Card Serial Number 121250  
Subject's Last Name INSTRUMENT

Effective Date 10/01/2014 Expiration Date 10/01/2016

Subject's First Name TEST

Subject's Middle Initial  
Driver's License Number  
Driver's License State

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 29 Jan 2015 End Time 12:40

Result Time 12:39

Result Date 29 Jan 2015 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:33

Data Type BLK

Sample Value 0.000

Sample Time 12:33

Data Type CHK

Sample Value 0.098

Sample Time 12:34

Data Type BLK

Sample Value 0.000

Sample Time 12:36

Data Type SUBJ

Sample Value 0.000

Sample Time 12:36

Data Type BLK

Sample Value 0.000

Sample Time 12:37

Data Type SUBJ

Sample Value 0.000

Sample Time 12:39

Data Type BLK

Sample Value 0.000

Sample Time 12:40

Standard Type Dry Gas Std

Standard Value 0.101

Standard Lot Number AG332301-01

Standard Expiration Date 11/19/2015

Tank Pressure 762

Barometric Pressure 764 mmHg

Blow Sample Number 1 Blow Duration 3.73 sec

Blow Volume 1921 cc End-of-Blow Time 12:36

Blow Sample Number 2 Blow Duration 3.73 sec

Blow Volume 1871 cc End-of-Blow Time 12:39

Tamper Evident Stamp b08ccaea

Test Status Code 0

Test Status Success